	Application No.	Applicant(s)	
	10/720,716	0,716 SONG ET AL.	
Notice of Allowability	Examiner	Art Unit	
	Trinh Vo Dinh	2821	
		2021	
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.			
1. This communication is responsive to <u>amendmend filed 02/16/2006</u> .			
2. The allowed claim(s) is/are <u>1,3-81 and 83-128</u> .			
 3. ☐ Acknowledgment is made of a claim for foreign priority unalled all blocks and blocks. a) ☐ All blocks and blocks are claim for foreign priority unalled all blocks. b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have 			
2. Certified copies of the priority documents have been received in Application No			
 Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). 			
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.			
4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.			
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.			
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached			
1) ☐ hereto or 2) ☐ to Paper No./Mail Date			
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date			
ldentifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).			
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.			
Attachment(s) 1. Notice of References Cited (PTO-892)	5. Notice of Informal De	atont Application (DTO 1	152)
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	5. ☐ Notice of Informal Pa6. ☐ Interview Summary (PTO-413),	,5 2)
3. Information Disclosure Statements (PTO-1449 or PTO/SB/0	Paper No./Mail Date 8), 7. ☐ Examiner's Amendm	e nent/Comment	
Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit	8. 🛛 Examiner's Statemen	nt of Reasons for Allowa	ance
of Biological Material	9.	TRINH DINH MARY EXAMINER	
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REASONS FOR ALLOWANCE

1. The following is an examiner's statement of reasons for allowance:

The cited art of record fails to teach a multi-band and multi-diversity antenna array comprising a plurality of antenna elements, said elements providing a plurality of beams, each of said beams selectively having diverse beam polarization or beam width and an integrated feed network feeding the elements and providing adaptive beam forming for said plurality of beams, said feed network comprising switched phase shifters wherein said beams are selectively defined in different directions as define in claims 1, 3-4, 8, 64, 74, 79-81, or higher frequency antenna elements interleaved with a lower frequency antenna elements and an integrated feed network comprising switched phase shifters which feed each of the elements from separate input and providing adapted beam forming for the plurality of beams and said feed network comprising switched phase shifters as defined in claim 71. Therefore, claims 1, 3-81 and 83-128 are presently allowed.

2. Any comments considered necessary by applicant must be submitted no latter than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Inquiry

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Trinh Vo Dinh whose telephone number is (571) 272-1821. The examiner can normally be reached on Monday to Friday from 9:30AM to 6:00PM.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Don Wong, can be reached on (571) 272-1834. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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March 06, 2006

TRINH DINH
PRIMARY EXAMINER

Vrushoodingh